

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
10 February 2005 (10.02.2005)

PCT

(10) International Publication Number  
**WO 2005/011405 A1**

(51) International Patent Classification<sup>7</sup>:

**A23L 1/212**

(21) International Application Number:

PCT/IB2004/002426

(22) International Filing Date: 29 July 2004 (29.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

03425533.1 4 August 2003 (04.08.2003) EP

(71) Applicants and

(72) Inventors: **BORCHINI, Milser** [IT/IT]; Via Marconi, 2, I-43040 Varano De'Melegari (Parma) (IT). **ALFIERI, Carla** [IT/IT]; Via Marconi, 2, I-43040 Varano De'Melegari (Parma) (IT). **BORCHINI, David** [IT/IT]; Via Marconi, 2, I-43040 Varano De'Melegari (Parma) (IT). **BORCHINI, Denis** [IT/IT]; Via Marconi, 2, I-43040 Varano De'Melegari (Parma) (IT). **BORCHINI, Damarys** [IT/IT]; Via Marconi, 2, I-43040 Varano De'Melegari (Parma) (IT).

(74) Agent: **NERI, Luciano**; Bugnion S.p.A., Via Emilia Est, 25, I-41100 Modena (IT).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

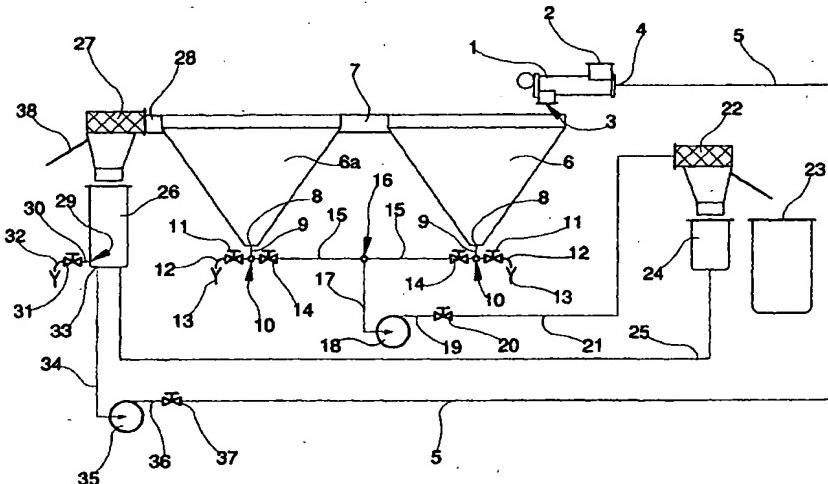
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM); European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: RECOVERY PLANT OF FIBERS AND SUBSTANCES TO THE TOMATO-PEEL



(57) Abstract: The plant consists of an Archimedes screw (1) in where the water arrives and into which arrive the working waste such us tomato-peel, seeds, molds and impurities that then gravitationally arrive into a cyclone (6) with water where a first separation is actuated such as the tomato-peels float and stay on the surface whereas the other waster precipitate on the bottom. Actuated the peel/water separation, through a separation filter (22) said peels arrive to a second separation filter (27), to a slanting collecting line (38) and to a compacting device (40). Then the peels arrive to a collecting tank (43) where are mixed with the juice of the tomato to arrive then, peels and juice, to a first disintegrator device (56), to a second disintegrator device (58), to a collecting tank (59) to a transferring pump (61) and at the end to a de-aerator (68) that, eliminated air, sends the product to the homogenizer (81) and at the end to a concentrator.

WO 2005/011405 A1